

## Freeform Search

Database:	US Pre-Grant Publication Full-Text Database	
	US Patents Full-Text Database	
	US OCR Full-Text Database	
	EPO Abstracts Database	
	JPO Abstracts Database	
	Derwent World Patents Index	
	IBM Technical Disclosure Bulletins	
Term:	L17 and L6	
Display:	20	Documents in Display Format: CIT
		Starting with Number 1
Generate:	<input type="radio"/> Hit List <input checked="" type="radio"/> Hit Count <input type="radio"/> Side by Side <input type="radio"/> Image	

### Search History

DATE: Wednesday, May 02, 2007 
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Set Name	Query	Hit Count	Set Name result set
side by side			
	DB=PGPB,USPT; PLUR=YES; OP=OR		
L18	L17 and L6	2	L18
L17	424/43.ccls.	562	L17
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
L16	L15 and @ad<20020121	9	L16
L15	L14 same (pressurized or pressurised)	16	L15
L14	L12 same (water or aqueous or saline)	802	L14
L13	L12 and @ad<20020121	436	L13
L12	L6 same (spray\$4 or "pressurized liquid" or "pressurised liquid" or water or aqueous or saline)	876	L12
L11	(transdermal\$4 or transepidermal\$4) same (spray\$4 or "pressurized liquid" or "pressurised liquid" or water or aqueous or saline)	24733	L11
L10	L9 and @ad<20020121	14	L10
L9	L7 and L6	40	L9
L8	L7 same L6	1	L8
L7	(transdermal\$4 or transepidermal\$4) same (spray\$4 or "pressurized liquid"	12870	L7

or "pressurised liquid" or propellant)

<u>L6</u>	(abrad\$4 or \$6abrasion) near6 (skin or epidermis or "stratum corneum")	4662	<u>L6</u>
<i>DB=PGPB,USPT; PLUR=YES; OP=OR</i>			
<u>L5</u>	(Alain near Corre) AND @pd>20061010	0	<u>L5</u>
<u>L4</u>	((Jean adj Pierre) near Michaud) AND @pd>20061010	0	<u>L4</u>
<u>L3</u>	((Jean adj Pierre) near Devidal) AND @pd>20061010	0	<u>L3</u>
<i>DB=PGPB; PLUR=YES; OP=OR</i>			
<u>L2</u>	(20050053554.pn.)	1	<u>L2</u>
<u>L1</u>	(20020058952.pn.)	1	<u>L1</u>

END OF SEARCH HISTORY

(FILE 'HOME' ENTERED AT 17:11:17 ON 02 MAY 2007)

FILE 'MEDLINE, USPATFULL, KOSMET, CAPLUS' ENTERED AT 17:12:15 ON 02 MAY 2007

L1 1870 S (ABRAD? OR DERMABRASION) (6A) (SKIN OR EPIDERMIS OR (STRATUM(  
L2 41 S L1 (S) (SPRAY? OR ((PRESSURIZED OR PRESSURISED) (3A) (LIQUID  
L3 19 S L2 (S) (WATER OR SALINE)  
L4 19 DUPLICATE REMOVE L3 (0 DUPLICATES REMOVED)  
L5 19 FOCUS L4 1-

=> d que 11

L1 1870 SEA (ABRAD? OR DERMABRASION) (6A) (SKIN OR EPIDERMIS OR  
(STRATUM(W) CORNEUM))

=> d que 12

L1 1870 SEA (ABRAD? OR DERMABRASION) (6A) (SKIN OR EPIDERMIS OR  
(STRATUM(W) CORNEUM))  
L2 41 SEA L1 (S) (SPRAY? OR ((PRESSURIZED OR PRESSURISED) (3A)  
(LIQUID OR FLUID OR WATER OR SALINE OR AQUEOUS)))

L5 ANSWER 2 OF 19 USPATFULL on STN

TI WATER JET FOR DERMATOLOGICAL TREATMENT

AB A system for the removal of epidermal and dermal skin through the use of a pressurized stream of water. The surgeon chooses the pressure of the water to obtain the desired abrasive affect. In one embodiment of the invention, a benign abrasive is added to the water to assist in the removal of the surface cells of the skin. In other embodiments, a variety of medications are added to the water such as: anesthetics to deaden the skin being abraded; coagulants to minimized bleeding in the abraded area; and antiseptics to combat infection after treatment is applied. In one embodiment of the invention, a catch reservoir is positioned around the site being treated to collect and withdraw the spent liquid and removed cells.

ACCESSION NUMBER: 2001:224294 USPATFULL

TITLE: WATER JET FOR DERMATOLOGICAL TREATMENT

INVENTOR(S): COLEMAN, WILLIAM P., METAIRE, CA, United States  
TSAI, REN-YEU, TAIPEI, Taiwan, Province of China

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001049511	A1	20011206
APPLICATION INFO.:	US 1999-271012	A1	19990317 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	MARK E OGRAM, 8040 S KOLB ROAD, TUCSON, AZ, 85706		
NUMBER OF CLAIMS:	23		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	6 Drawing Page(s)		
LINE COUNT:	387		

L5 ANSWER 3 OF 19 USPATFULL on STN

TI Water jet for dermatological treatment

AB A system for the removal of epidermal and dermal skin through the use of a pressurized stream of water. The surgeon chooses the pressure of the water to obtain the desired abrasive affect. In one embodiment of the invention, a benign abrasive is added to the water to assist in the removal of the surface cells of the skin. In other embodiments, a variety of medications are added to the water such as: anesthetics to deaden the skin being abraded; coagulants to minimized bleeding in the abraded area; and antiseptics to combat infection after treatment is applied. In one embodiment of the invention, a catch reservoir is positioned around the site being treated to collect and withdraw the spent liquid and removed cells.

ACCESSION NUMBER: 2001:116275 USPATFULL

TITLE: Water jet for dermatological treatment

INVENTOR(S): Coleman, William P., 10 Tara Pl., Metaire, LA, United States 70002  
Tsai, Ren-Yeu, 199 Tung Hwa North Rd., Taipei, Taiwan, Province of China

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6264666	B1	20010724
APPLICATION INFO.:	US 1998-13714		19980126 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Buiz, Michael		
ASSISTANT EXAMINER:	Ho, (Jackie) Tan-Uyen		
NUMBER OF CLAIMS:	14		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 10 Drawing Page(s)		

LINE COUNT: 366

L5 ANSWER 5 OF 19 USPATFULL on STN

TI Tissue removal using biocompatible materials

AB Biocompatible materials are propelled at the skin with sufficient velocity to cause desired resurfacing of tissue to the desired penetration depth. The materials, such as dry ice or water ice, are harmonious with the human body and thus eliminate foreign body reactions. Various materials may be used in combination, including local anesthetics and vasoconstrictors in solid or liquid form. The biocompatible solid or liquid particles are suspended in a cold carrier fluid and propelled through an insulated delivery system to the surface of the skin. The treatment of diseased skin lesions may be accomplished using the present invention as a drug delivery system.

ACCESSION NUMBER: 2004:180921 USPATFULL

TITLE: Tissue removal using biocompatible materials

INVENTOR(S): Weber, Paul J., Ft. Lauderdale, FL, United States  
Da Silva, Luiz B., Danville, CA, United States  
Rubenchik, Alexander M., Livermore, CA, United States  
PATENT ASSIGNEE(S): Pearl Technology Holdings, LLC, Livermore, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6764493	B1	20040720
APPLICATION INFO.:	US 2000-710478		20001110 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1999-234224, filed on 20 Jan 1999, now patented, Pat. No. US 6306119		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Lewis, Ralph A.		
LEGAL REPRESENTATIVE:	Wooldridge, John P.		
NUMBER OF CLAIMS:	54		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	5 Drawing Figure(s); 5 Drawing Page(s)		
LINE COUNT:	911		

L5 ANSWER 6 OF 19 USPATFULL on STN

TI Tissue resurfacing using biocompatible materials

AB Tissue resurfacing is accomplished by propelling biocompatible, non-toxic materials at the tissue with sufficient velocity to cause destruction or loosening of tissues to a desired depth. The biocompatible materials are generated by abrading a solid frozen unit and propelling the abraded material onto the surface of the skin or tissue to be treated. A vacuum line near the delivery tip may be used to remove excess materials or reaction by-products that build up on the surface of the skin. The treatment system generally consists of a control unit, a handheld particle generator and a cable that connects the control unit to the particle generator. The control unit can include user controls to select particle temperature, particle flux, particle velocity and vacuum. The handheld particle generator contains a mechanism to push the frozen biocompatible material against a rotating grinding wheel that produces small particles, which are propelled against tissue being treated.

ACCESSION NUMBER: 2002:113204 USPATFULL

TITLE: Tissue resurfacing using biocompatible materials

INVENTOR(S): Weber, Paul J., Ft. Lauderdale, FL, UNITED STATES  
Da Silva, Luiz B., Danville, CA, UNITED STATES  
Rubenchik, Alexander M., Livermore, CA, UNITED STATES  
PATENT ASSIGNEE(S): Pearl Technology Holdings, LLC (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002058952	A1	20020516

US 6726693 B2 20040427  
APPLICATION INFO.: US 2001-820131 A1 20010328 (9)  
RELATED APPLN. INFO.: Continuation-in-part of Ser: No. US 2000-710478, filed  
on 10 Nov 2000, PENDING  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: John P. Wooldridge, 1334 Ridgestone Court, Livermore,  
CA, 94550  
NUMBER OF CLAIMS: 39  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 8 Drawing Page(s)  
LINE COUNT: 732

L5 ANSWER 8 OF 19 USPATFULL on STN

TI Microdermabrasion System and Method of Use

AB A device, a system employing the device, and method of performing skin  
treatment are provided for skin treatment. The device includes a vacuum  
head base defining a chamber therein and having a substantially smooth  
treatment tip attached and extending from an end thereof or integral  
therewith. The tip has at least one central opening that is open to the  
chamber, and is adapted to contact the skin and traverse the skin in a  
substantially nonabrasive manner. A vacuum access opening is provided  
through a side wall of the vacuum head base and adapted to connect with  
a source of vacuum. A tissue stop member is located within the chamber.  
It may have an abrasive surface for exfoliating skin cells, or a  
smoother surface for traversing the skin without substantial abrasion.

ACCESSION NUMBER: 2007:101520 USPATFULL

TITLE: Microdermabrasion System and Method of Use

INVENTOR(S): Karasiuk, Kenneth B., Oak Park, CA, UNITED STATES

PATENT ASSIGNEE(S): EMED, INCORPORATED, Westlake Village, CA, UNITED STATES  
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2007088371	A1	20070419
APPLICATION INFO.:	US 2006-562892	A1	20061122 (11)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2003-393682, filed on 19 Mar 2003, PENDING Continuation-in-part of Ser. No. US 2001-989992, filed on 21 Nov 2001, GRANTED, Pat. No. US 6695853		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	AKA CHAN LLP, 900 LAFAYETTE STREET, SUITE 710, SANTA CLARA, CA, 95050, US		
NUMBER OF CLAIMS:	36		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Page(s)		
LINE COUNT:	765		

L5 ANSWER 12 OF 19 USPATFULL on STN

TI Skin treatment system and method of use

AB A device, a system employing the device and method of performing skin  
treatment are provided for skin treatment. The device includes a vacuum  
head base defining a chamber therein and having a substantially smooth  
treatment tip attached and extending from an end thereof or integral  
therewith. The tip has at least one central opening that is open to the  
chamber, and is adapted to contact the skin and traverse the skin in a  
substantially non-abrasive manner. A vacuum access opening is provided  
through a side wall of the vacuum head base and adapted to connect with  
a source of vacuum. A tissue stop member is located within the chamber.  
It may have an abrasive surface for exfoliating skin cells, or a  
smoother surface for traversing the skin without substantial abrasion.

ACCESSION NUMBER: 2003:301189 USPATFULL

TITLE: Skin treatment system and method of use

INVENTOR(S): Karasiuk, Kenneth B., Oak Park, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003212415	A1	20031113
APPLICATION INFO.:	US 2003-393682	A1	20030319 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2001-989992, filed on 21 Nov 2001, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	BOZICEVIC, FIELD & FRANCIS LLP, 200 MIDDLEFIELD RD, SUITE 200, MENLO PARK, CA, 94025		
NUMBER OF CLAIMS:	29		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Page(s)		
LINE COUNT:	792		

L5 ANSWER 13 OF 19 USPATFULL on STN

TI Microdermabrasion system and method of use

AB A microdermabrasion device, microdermabrasion system employing the device and method of performing microdermabrasion. A device for exfoliating skin cells from an external surface of skin includes a vacuum head base defining a chamber therein and having a substantially smooth treatment tip attached and extending from an end thereof or integral therewith. The tip has at least one central opening which is open to the chamber, and is adapted to contact the skin and traverse the skin in a substantially non-abrasive manner. A vacuum access opening is provided through a side wall of the vacuum head base and adapted to connect with a source of vacuum. An abrasive member is located within the chamber, and at least one opening adapted to allow the flow of one or more fluids through the chamber is provided, wherein upon application of vacuum through the vacuum access opening, the fluids are drawn through the chamber, applied to the skin and taken up through the vacuum access opening, and a portion of the skin, targeted by the tip opening, is drawn into the chamber and brought into contact with the abrasive member.

ACCESSION NUMBER: 2003:141297 USPATFULL  
TITLE: Microdermabrasion system and method of use  
INVENTOR(S): Karasiuk, Kenneth B., Oak Park, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003097139	A1	20030522
	US 6695853	B2	20040224
APPLICATION INFO.:	US 2001-989992	A1	20011121 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	BOZICEVIC, FIELD & FRANCIS LLP, 200 MIDDLEFIELD RD, SUITE 200, MENLO PARK, CA, 94025		
NUMBER OF CLAIMS:	24		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	5 Drawing Page(s)		
LINE COUNT:	626		